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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/898,234

DATE: 08/28/2001  
TIME: 11:57:30

Input Set : A:\98385Iseq.txt  
Output Set: N:\CRF3\08282001\I898234.raw

3 <110> APPLICANT: Hauptmann, Rudolph  
4 Himmller, Adolph  
5 Maurer-Fogy, Ingrid  
6 Stratowa, Christian  
8 <120> TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for  
9 Them  
11 <130> FILE REFERENCE: 98,385-I  
14 <140> CURRENT APPLICATION NUMBER: 09/898,234  
15 <141> CURRENT FILING DATE: 2001-07-03  
17 <150> PRIOR APPLICATION NUMBER: 09/525,998  
18 <151> PRIOR FILING DATE: 2000-03-15  
20 <150> PRIOR APPLICATION NUMBER: 08/383,676  
21 <151> PRIOR FILING DATE: 1995-02-01  
23 <150> PRIOR APPLICATION NUMBER: 08/153,287  
24 <151> PRIOR FILING DATE: 1993-11-17  
26 <150> PRIOR APPLICATION NUMBER: 07/821,750  
27 <151> PRIOR FILING DATE: 1992-01-02  
29 <150> PRIOR APPLICATION NUMBER: 07/511,430  
30 <151> PRIOR FILING DATE: 1990-04-20  
32 <160> NUMBER OF SEQ ID NOS: 87  
34 <170> SOFTWARE: PatentIn Ver. 2.0  
36 <210> SEQ ID NO: 1  
37 <211> LENGTH: 1368  
38 <212> TYPE: DNA  
39 <213> ORGANISM: Homo sapiens  
41 <220> FEATURE:  
42 <221> NAME/KEY: CDS  
43 <222> LOCATION: (1)..(1368)  
45 <220> FEATURE:  
46 <221> NAME/KEY: sig\_peptide  
47 <222> LOCATION: (1)..(87)  
49 <220> FEATURE:  
50 <221> NAME/KEY: misc\_feature  
51 <222> LOCATION: (88)..(120)  
52 <223> OTHER INFORMATION: Portion of TNF-BP pro protein cleaved by  
53 extracellular proteases following secretion.  
55 <220> FEATURE:  
56 <221> NAME/KEY: misc\_feature  
57 <222> LOCATION: (606)..(633)  
58 <223> OTHER INFORMATION: Portion of TNF-BP pro protein cleaved by  
59 extracellular proteases following secretion.  
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62 atg ggc ctc tcc acc gtg cct gac ctg ctg cca ctg gtg ctc ctg 48  
63 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu Leu  
64 1 5 10 15  
66 gag ctg ttg gtg gga ata tac ccc tca ggg gtt att gga ctg gtc cct 96  
67 Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro

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**Input Set : A:\98385Iseq.txt**  
**Output Set: N:\CRF3\08282001\I898234.raw**

68	20	25	30	
70	cac cta ggg gac agg gag aag aga gat agt gtg tgt ccc caa gga aaa			144
71	His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys			
72	35	40	45	
74	tat atc cac cct caa aat aat tcg att tgc tgt acc aag tgc cac aaa			192
75	Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys			
76	50	55	60	
78	gga acc tac ttg tac aat gac tgt cca ggc ccg ggg cag gat acg gac			240
79	Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp			
80	65	70	75	80
82	tgc agg gag tgt gag agc ggc tcc ttc acc gct tca gaa aac cac ctc			288
83	Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu			
84	85	90	95	
86	aga cac tgc ctc agc tgc tcc aaa tgc cga aag gaa atg ggt cag gtg			336
87	Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val			
88	100	105	110	
90	gag atc tct tct tgc aca gtg gac cgg gac acc gtg tgt ggc tgc agg			384
91	Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg			
92	115	120	125	
94	aag aac cag tac cgg cat tat tgg agt gaa aac ctt ttc cag tgc ttc			432
95	Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe			
96	130	135	140	
98	aat tgc agc ctc tgc ctc aat ggg acc gtg cac ctc tcc tgc cag gag			480
99	Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu			
100	145	150	155	160
102	aaa cag aac acc gtg tgc acc tgc cat gca ggt ttc ttt cta aga gaa			528
103	Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu			
104	165	170	175	
106	aac gag tgt gtc tcc tgt agt aac tgt aag aaa agc ctg gag tgc acg			576
107	Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr			
108	180	185	190	
110	aag ttg tgc cta ccc cag att gag aat gtt aag ggc act gag gac tca			624
111	Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser			
112	195	200	205	
114	ggc acc aca gtg ctg ttg ccc ctg gtc att ttc ttt ggt ctt tgc ctt			672
115	Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu			
116	210	215	220	
118	tta tcc ctc ctc att ggt tta atg tat cgc tac caa cgg tgg aag			720
119	Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys			
120	225	230	235	240
122	tcc aag ctc tac tcc att gtt tgt ggg aaa tcg aca cct gaa aaa gag			768
123	Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu			
124	245	250	255	
126	ggg gag ctt gaa gga act act aag ccc ctg gcc cca aac cca agc			816
127	Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser			
128	260	265	270	
130	ttc agt ccc act cca ggc ttc acc ccc acc ctg ggc ttc agt ccc gtg			864
131	Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val			
132	275	280	285	

RAW SEQUENCE LISTING  
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Input Set : A:\98385Iseq.txt  
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134	ccc	agt	tcc	acc	tcc	acc	tcc	agc	tcc	acc	tat	acc	ccc	ggt	gac	tgt	912	
135	Pro	Ser	Ser	Thr	Phe	Thr	Ser	Ser	Ser	Thr	Tyr	Thr	Pro	Gly	Asp	Cys		
136	290				295					300								
138	ccc	aac	ttt	gct	ccc	cgc	aga	gag	gtg	gca	cca	ccc	tat	cag	ggg	960		
139	Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala	Pro	Pro	Tyr	Gln	Gly		
140	305				310				315			320						
142	gct	gac	ccc	atc	ctt	gct	aca	gcc	ctc	gcc	tcc	gac	ccc	atc	ccc	aac	1008	
143	Ala	Asp	Pro	Ile	Leu	Ala	Thr	Ala	Leu	Ala	Ser	Asp	Pro	Ile	Pro	Asn		
144					325				330			335						
146	ccc	ctt	cag	aag	tgg	gag	gac	agc	gcc	cac	aag	cca	cag	agc	cta	gac	1056	
147	Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala	His	Lys	Pro	Gln	Ser	Leu	Asp		
148					340				345			350						
150	act	gat	gac	ccc	gct	acg	ctg	tac	gcc	gtg	gtg	gag	aac	gtg	ccc	ccg	1104	
151	Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tyr	Ala	Val	Val	Glu	Asn	Val	Pro	Pro		
152					355				360			365						
154	ttg	cgc	tgg	aag	gaa	ttc	gtg	cg	cg	cta	ggg	ctg	agc	gac	cac	gag	1152	
155	Leu	Arg	Trp	Lys	Glu	Phe	Val	Arg	Arg	Leu	Gly	Leu	Ser	Asp	His	Glu		
156					370				375			380						
158	atc	gat	cg	ctg	gag	ctg	cag	aac	ggg	cg	tgc	ctg	cg	gag	g	caa	1200	
159	Ile	Asp	Arg	Leu	Glu	Leu	Gln	Asn	Gly	Arg	Cys	Leu	Arg	Glu	Ala	Gln		
160					385				390			395			400			
162	tac	agc	atg	ctg	g	cc	acc	tgg	agg	cg	cg	ac	cg	cg	cg	gag	1248	
163	Tyr	Ser	Met	Leu	Ala	Thr	Trp	Arg	Arg	Arg	Thr	Pro	Arg	Arg	Glu	Ala		
164					405				410			415						
166	acg	ctg	gag	ctg	ctg	gga	cg	gt	ctc	cg	gac	atg	gac	ctg	ctg	gg	1296	
167	Thr	Leu	Glu	Leu	Leu	Gly	Arg	Val	Leu	Arg	Asp	Met	Asp	Leu	Leu	Gly		
168					420				425			430						
170	tgc	ctg	gag	gac	atc	gag	gag	g	cc	tt	tgc	gg	ccc	gg	cc	cc	1344	
171	Cys	Leu	Glu	Asp	Ile	Glu	Glu	Ala	Leu	Cys	Gly	Pro	Ala	Ala	Leu	Pro		
172					435				440			445						
174	ccc	g	cc	cc	agt	ttt	ctc	aga	tga								1368	
175	Pro	Ala	Pro	Ser	Leu	Leu	Arg											
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179	<210>	SEQ	ID	NO:	2													
180	<211>	LENGTH:	455															
181	<212>	TYPE:	PRT															
182	<213>	ORGANISM:	Homo sapiens															
184	<400>	SEQUENCE:	2															
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186	1				5				10			15						
188	Glu	Leu	Leu	Val	Gly	Ile	Tyr	Pro	Ser	Gly	Val	Ile	Gly	Leu	Val	Pro		
189					20				25			30						
191	His	Leu	Gly	Asp	Arg	Glu	Lys	Arg	Asp	Ser	Val	Cys	Pro	Gln	Gly	Lys		
192					35				40			45						
194	Tyr	Ile	His	Pro	Gln	Asn	Asn	Ser	Ile	Cys	Cys	Thr	Lys	Cys	His	Lys		
195					50				55			60						
197	Gly	Thr	Tyr	Leu	Tyr	Asn	Asp	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp		
198					65				70			75			80			
200	Cys	Arg	Glu	Cys	Glu	Ser	Gly	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu		

RAW SEQUENCE LISTING  
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Input Set : A:\98385Iseq.txt  
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201	85	90	95
203	Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val		
204	100	105	110
206	Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg		
207	115	120	125
209	Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe		
210	130	135	140
212	Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu		
213	145	150	155
215	Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu		
216	165	170	175
218	Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr		
219	180	185	190
221	Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser		
222	195	200	205
224	Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu		
225	210	215	220
227	Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys		
228	225	230	235
230	Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu		
231	245	250	255
233	Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser		
234	260	265	270
236	Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val		
237	275	280	285
239	Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys		
240	290	295	300
242	Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly		
243	305	310	315
245	Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn		
246	325	330	335
248	Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp		
249	340	345	350
251	Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro		
252	355	360	365
254	Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu		
255	370	375	380
257	Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln		
258	385	390	395
260	400		
261	Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala		
263	405	410	415
264	420	425	430
266	435	440	445
269	Pro Ala Pro Ser Leu Leu Arg		
270	450	455	
273	<210> SEQ ID NO: 3		
274	<211> LENGTH: 483		

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/898,234

DATE: 08/28/2001  
TIME: 11:57:30

Input Set : A:\98385Iseq.txt  
Output Set: N:\CRF3\08282001\I898234.raw

275 <212> TYPE: DNA  
 276 <213> ORGANISM: Homo sapiens  
 278 <220> FEATURE:  
 279 <221> NAME/KEY: CDS  
 280 <222> LOCATION: (1)..(483)  
 282 <400> SEQUENCE: 3  
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 284 Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser  
 285 1 5 10 15  
 287 att tgc tgt acc aag tgc cac aaa gga acc tac ttg tac aat gac tgt 96  
 288 Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys  
 289 20 25 30  
 291 cca ggc ccg ggg cag gat acg gac tgc agg gag tgt gag agc ggc tcc 144  
 292 Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser  
 293 35 40 45  
 295 ttc acc gct tca gaa aac cac ctc aga cac tgc ctc agc tgc tcc aaa 192  
 296 Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys  
 297 50 55 60  
 299 tgc cga aag gaa atg ggt cag gtg gag atc tct tct tgc aca gtg gac 240  
 300 Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp  
 301 65 70 75 80  
 303 cgg gac acc gtg tgt ggc tgc agg aag aac cag tac cgg cat tat tgg 288  
 304 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp  
 305 85 90 95  
 307 agt gaa aac ctt ttc cag tgc ttc aat tgc agc ctc tgc ctc aat ggg 336  
 308 Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly  
 309 100 105 110  
 311 acc gtg cac ctc tcc tgc cag gag aaa cag aac acc gtg tgc acc tgc 384  
 312 Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val Cys Thr Cys  
 313 115 120 125  
 315 cat gca ggt ttc ttt cta aga gaa aac gag tgt gtc tcc tgt agt aac 432  
 316 His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val Ser Cys Ser Asn  
 317 130 135 140  
 319 tgt aag aaa agc ctg gag tgc acg aag ttg tgc cta ccc cag att gag 480  
 320 Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu  
 321 145 150 155 160  
 323 aat  
 324 Asn  
 327 <210> SEQ ID NO: 4  
 328 <211> LENGTH: 161  
 329 <212> TYPE: PRT  
 330 <213> ORGANISM: Homo sapiens  
 332 <400> SEQUENCE: 4  
 333 Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser  
 334 1 5 10 15  
 336 Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys  
 337 20 25 30  
 339 Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser  
 340 35 40 45

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/898,234

DATE: 08/28/2001  
TIME: 11:57:31

Input Set : A:\98385Iseq.txt  
Output Set: N:\CRF3\08282001\I898234.raw

L:688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:1420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:1486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:1552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:1671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33  
L:1690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:1693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34  
L:1726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36